

Abstract

A reduced toxicity ethylene glycol-based antifreeze/heat transfer fluid concentrate is provided comprised of ethylene glycol, a polyhydric alcohol having a boiling point above about 150° C and that acts as an alcohol dehydrogenase inhibitor, such as propylene glycol or glycerol, and selected additives. The antifreeze/heat transfer fluid concentrate may be combined with water to form a coolant solution for use in internal combustion engines. A method is also provided for reducing the toxicity of fluids containing ethylene glycol by addition to the fluid of a polyhydric alcohol having a boiling point above about 150° C and that acts as an alcohol dehydrogenase inhibitor, such as propylene glycol or glycerol.